Headquarters U.S. Air Force

Integrity - Service - Excellen ce

Reduction In Total Ownership Cost (RTOC) Program

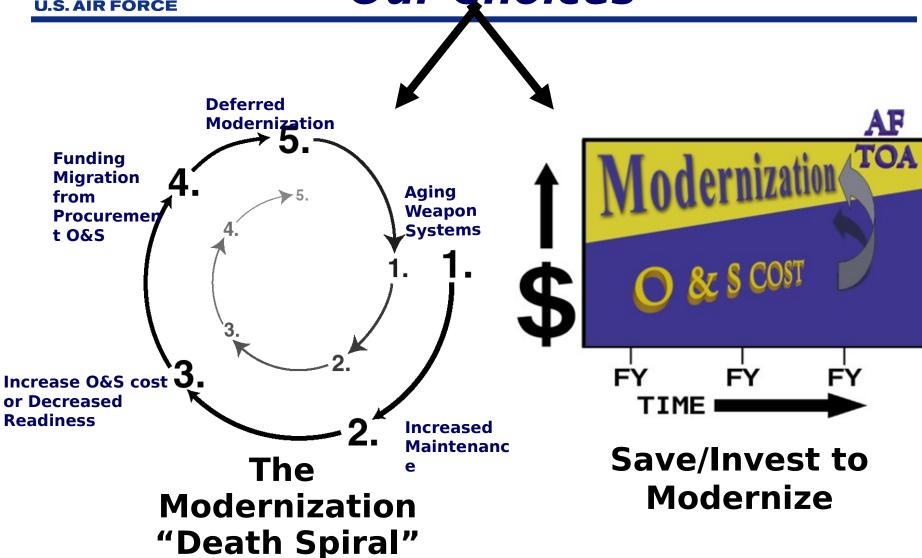


SAF/AQXA April 28, 2004

U.S. AIR FORCE



Why RTOC?
Our Choices





RTOC Program Origins

- 12-Star letter: ACC/CC, AMC/CC, AFMC/CC (Sep 98)
 - Growing O&S costs are a "threat" to future modernization and readiness
 - Lead commands must lead and invest to reduce costs
 - Quid pro quo -- keep portion of savings in command
- CORONA interest/actions jumpstart pilots
 - Establish a process to track cost reduction initiatives
 - Develop policy directive to institutionalize RTOC
- Defense Systems Affordability Council program initiation create 30 Pilots Programs10 for each service with a 20% stretch goal to reduce O&S costs from a 1998 O&S baseline



OSD RTOC Vision

- Through RTOC Principles,
 - All defense systems will perform with increasing readiness and capability
 - Avoid increased operation and support costs
 - Improve logistics footprint
 - Institutionalize the continuous implementation of innovative process and hardware improvements

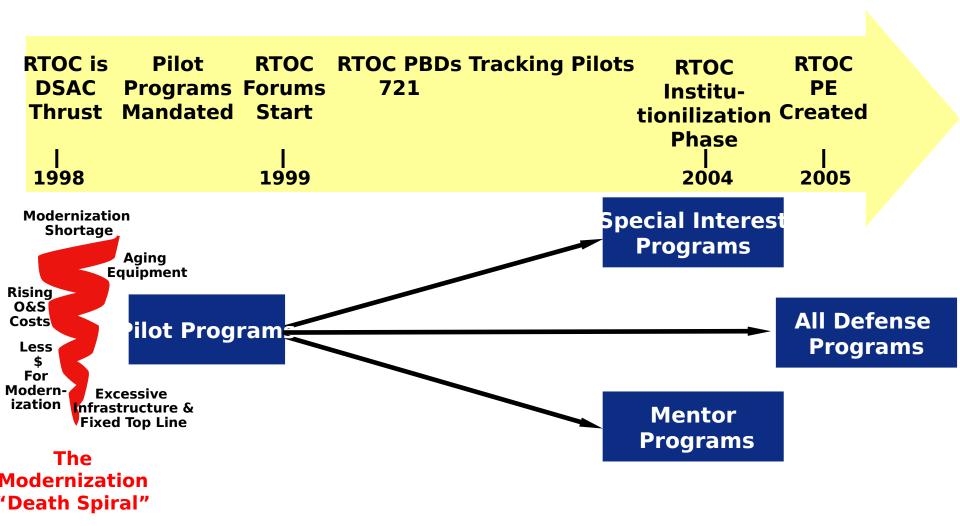


RTOC -Work In Process

- Transforming our acquisition processes
 - Capability focus
- RTOC concept work In progress
 - Air Force Pilot Programs making progress
 - PBD 721 funding excellent proof of concept
 - Total PBD investment \$37.5 million since FY99
 - Produces \$266.2 million in material savings/cost avoidance over 20 year lifecycle
 - Excludes fuel and personnel



RTOC Evolution





OSD RTOC Funding

- In the past, RTOC funding based on OSD Program Budget Decisions (PBDs)
 - FY01 AF receives \$11.6M RTOC funding from OSD
 - FY02 RTOC PBD cycle canceled by OSD
 - FY03 AF receives \$24.9M
 - FY04 AF receives \$0.9M
- Pec,03 PBB 707 established an QSD PE thru 09

Service-Wid 27,400 \$25,200 \$25,200 \$25,200 \$25,200



Recent OSD RTOC Guidance

- Mr. Wynne's memorandum of 16 Dec 03:
 - RTOC goal
 - Maximize cost avoidance on total defense systems' FY 2010 O&S costs by offsetting 30 percent of the inflation predicted from an FY 2004 baseline
 - Special interest programs (Global Hawk and B-1/B-2 propulsion programs)



Leadership Roles

RTOC Requires a "Sustained" Cultural Change

DoD and AF leadership must constantly commit to the importance of and need for reducing ownership costs
 Motivate - by funding initiatives

- Commit to most of the savings remaining with the MAJCOM
- Produce and promote successes through consistent support and repeated advertisement
- Don't just "Try" -- Do It!

hange is Essential to Improvemer



Future Project Selection

- Standardize information submitted
- OSD panel to weigh
 - Value to warfighter
 - Readiness improvement
 - Risk
 - ROI
- Decisions made by October 1 of each year



Guidelines

- Project guidelines:
 - Less than 3 Years of funding
 - No more than \$3M funding in any year
 - No more than \$5M total funding for a project



Ingredients for Success

- Ideas
 - Repairs
 - Processes
 - Anything else that saves money
- Details
 - Description, funding requirement
 - Engines/NSNs affected
 - Old/new process data
 - Track actual savings



OSD RTOC Template

R-TOC Investmen	t Tem	plate	!				
Investment Reque							
(Enter Millions of			Dolla	rs)			
Enter Project name	FY05		FY07	FY08	FY09	FY10	
Advanced War Machine	0.100	0.050					
Total Investment (TY\$M)							
0.150							
10-Year Discount Factor fo	r Then Y	rear (No	minal) E	ollars			
4.2% Discount Factors	1.000	0.960	0.921	0.884	0.848	0.814	
Discount Factors	1.000	0.900	0.921	0.004	0.040	0.014	
Present Value(s) of Investme	nt(s)						
	0.100	0.048	0.000	0.000	0.000	0.000	
Total Discounted Investme	nt						
0.148							
Savings/Cost Avo	idanc	e					
(Enter Millions of			tant I	Dollai	s)		
Project name	FY05		FY07	FY08	FY09	FY10	FY11
Advanced War Machine		0.030	0.090	0.090	0.090	0.090	0.090
Total Savings/Cost Avoida 2.19	nce (CY	\$M)					
2.19							
10-Year Discount Factor fo	r Const	ant (Rea	l) Dollar	'S			
2.5%							
Discount Factors	1.000	0.976	0.952	0.929	0.906	0.884	0.862
Present Values of Savings/Co	st Avnid.	ances					
11030110 1411403 01 04111193, 00	0.000		0.086	0.084	0.082	0.080	0.078
Total FYDP Discounted Sav 0.360	ings/Co	st Avoid	lance				
0.360							
Total Life Cycle Discounted	Saving	s/Cost A	Avoidand	e			
1.600							
BOT (EADB)							
ROI (FYDP) 2.43							
2170							
ROI (LCC)							
10.81							



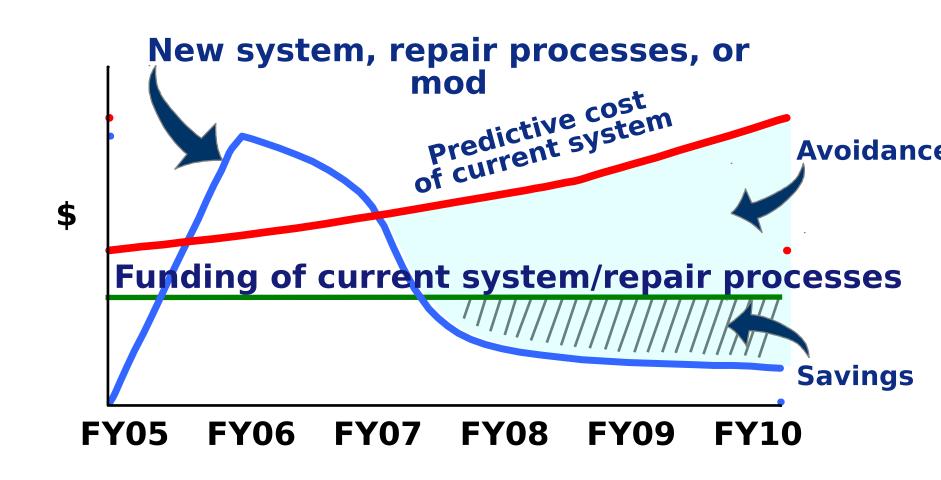
RTOC Projects Evaluation Summary

EVALUATION	SCORING WEIGHTS						
SUBJ ECT AREAS	HIGH RATING	MEDIUM RATING	LOW RATING				
OBJ ECTIVE:							
ROI (FYDP)	10 (Greater than 10:1)	5 (Between 10:1 & 5:1)	3 (Less than 5:1)				
ROI (LCC)	10 (Greater than 10:1)	5 (Between 10:1 & 5:1)	3 (Less than 5:1)				
Service Ranking	10 (In top third of ranking)	5 (In middle third of ranking)	1 (In bottom third of ranking)				
Crossover Year (year when return is greater than investment)	5 (Less than 3 years)	3 (3 years)	1 (More than 3 years)				
Payback Year (when total return is greater than total investment)	5 (Less than 4 years)	3 (4 years)	1 (More than 4 years)				
SUBJ ECTIVE:							
Operational Readiness	10	5	3				
Benefits Credibility	5	3	1				
Technology	3	2	1				
Schedule	3	2	1				
Budget	3	2	1				
Management Support	3	2	1				

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Cost Avoidance vs. Cost Savings





RTOC FY05 & FY06 Project Call, Evaluation and Selection

- Process
- 15 Apr OSD issues call for projects FY05 & FY06
 - Congressional interest requires looking at FY06
 - OSD (AT&L) trying to grow RTOC like Advanced Concept Technology Demonstration
- 15 Jun RTOC initiatives due to SAF/AQX
- 15 Jul RTOC initiatives due to OSD
- 7 Aug OSD evaluation team provides feedback to services
- 8 Sep OSD provides rack & stack to services
- 15 Sep services provide comments on OSD list
- 22 Sep OSD submits "Fund" list to Defense Systems Mgmt for approval
- 1 Oct OSD prepares FY05 funding documents (MIPRs)



AF RTOC Plan

- Institute a method to "Tax" RTOC savings at a rate of 10% starting in FY05
 - Establish AF "Waterfall" to fund new initiatives
 - Move "Saved" dollars to PEXXXXX until new initiatives are approved



Proposed RTOC "Transformation" Fund

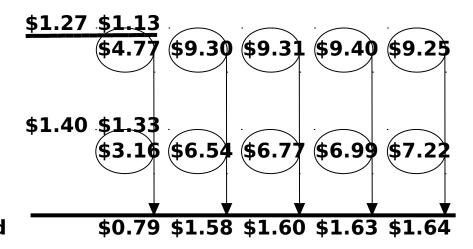
(10% Tax on Savings)

Initiative X
Investment
Savings

Initiative Y
Investment
Savings

AQX 10% Reinvestment Fund

FY04 FY05 FY06 FY07 FY08 FY09



Total \$7.27M



AFTOC - Engine CPFH Tool

- Jan 04 SAF/AQX provided \$50K to add the engine cost break-out in MAJCOM's cost per flying tool
- Air Force Cost Analysis Agency and Battelle Memorial Institute are working on this requirement
- Anticipated deployment: Oct 2004





- The original RTOC Pilot Programs have been successful in reducing O&S costs
- Break strong dependence on PBDs
 - Establish AF waterfall to fund initiatives that have strong savings stream in the FYDP
- Special Interest Programs